McCoy, Erin

From:

McCoy, Erin

Sent:

4 يستري ليد

Thursday, October 15, 2015 1:26 PM

To:

Hylton Jackson (Hylton.Jackson@dnr.iowa.gov)

Cc:

Marguess, Scott; Richards, Robert

Subject:

FW: Vogel's

Attachments:

removed.txt; Well Monitoring Table.docx

Importance:

High

Hylton, I need to fill you in on a little back story here. I noticed in the QAPP revisions that some of the well designations had changed from the 2005 Groundwater Monitoring Plan. These designations are very important since concentrations of COCs above ARARs in perimeter and guard wells require certain actions per the 2003 Consent Order. So I pointed this out to Linda when she called me. Keith looked into it and called me to let me know that he would send us an updated list.

I have been comparing the updated list to the 2005 Groundwater Monitoring Plan, the 2003 Consent Order, and the 2002 Groundwater Monitoring Plan. There seems to be some discrepancies in how the well designations changed or were initially assigned (as in the case of new wells) and the definitions of the designations. Based on the 2002 Groundwater Monitoring Plan and 2003 Consent Order, the definitions were:

- Perimeter used to detect off-site contamination migration (Page 2 of the 2002 Groundwater Monitoring Plan)
- Guard provide an indication of contaminant migration that may cause an exceedance of statewide standards at the Site's southern boundary as monitored in the southern Site perimeter monitoring wells well in advance of such an exceedance actually occurring (Page 8, paragraph 1 of the 2003 Consent Order).
- Interior track on-site conditions (i.e., overall changes in magnitude and extent of contamination) (Page 2 of the 2002 Groundwater Monitoring Plan)

As you can see, the designation was dependent on where the well was installed in relation to the site boundaries. However, it appears that as the plume grew, the designation of wells changed based on the plume boundary, not the site boundary as the 2002 Groundwater Monitoring Plan and 2003 Consent Order outline. In the 2005 Groundwater Monitoring Plan, which is the most recent plan the definitions in this plan on page 3 are:

- Perimeter used to detect contamination migration at the perimeter of the plume.
- Guard provide an indication of contaminant migration that may cause a violation statewide standards at the plume boundary.
- Interior track on-site migrations (i.e., Overall changes in the magnitude and extent of contamination).

I bolded the main changes in the definition. As a result of these changes, when GMW-7 was replaced with GMW-7R, the replacement well was designated an interior well instead of a perimeter well, even though well GMW-7R was installed at the southern property boundary and GMW-7 was an perimeter well as outlined in the Consent Order. Also, other new wells installed downgradient and off site became interior (GMW-21) and perimeter (GMW-30) wells. This does not correspond with the definitions given in the 2002 Groundwater Monitoring Plan or the 2003 Consent Order.

This is concerning since the 2003 Consent Order specifically lays out what is to occur if exceedances of the ARARs are detected in perimeter and guard wells. I cannot find any record where IDNR or EPA approved the change in the definition of the well designation, although we did approve the reports where the changes in well designations were made. Since this traces all the way back to the 2005 Groundwater Monitoring Plan, I believe the only way to fix this is to request an updated Groundwater Monitoring Plan. Or Vogel could clear this up in the QAPP revisions that they are

OTIM

011-00

40499434 Superfund

30

currently working on. This will also be a chance for IDNR and EPA to verify the well designation definitions and verify each well designation with respect to property boundaries, as the 2003 Consent Order specifies.

What are your thoughts on this matter? If they are going to fix this in the QAPP revisions, they should probably be notified ASAP. Please feel free to call me to discuss and let me know how you decide to handle this. Thanks!

Erin McCoy, P.G. | Remedial Project Manager

EPA Region 7 | Superfund Division | Iowa Nebraska Branch
11201 Renner Blvd | Lenexa, KS 66219

Phone: 913.551.7977

mccoy.erin@epa.gov | www.epa.gov

From: Keith Delange [mailto:KDelange@geotekeng.com]

Sent: Thursday, October 15, 2015 10:13 AM

To: McCoy, Erin <McCoy.Erin@epa.gov>; Jackson, Hylton [DNR] (Hylton.Jackson@dnr.iowa.gov)

<Hvlton.Jackson@dnr.iowa.gov>

Cc: Linda Watts <LWatts@geotekeng.com>; Scott.Heemstra@vogelpaint.com

Subject: Vogel's

Erin,

Table attached is the one from page 3 in QAPP – Linda changed all designations back to what they were in the 2005 Groundwater Monitoring Plan. The following wells were not included in the 2005 plan: GMW4, GMW6, GMW10R, GMW14, GMW22, GMW33 thru GMW37. We have added designations for those wells as indicated on the table.

If you have questions or want to discuss, let me know.

Keith

From: Linda Watts

Sent: Thursday, October 15, 2015 9:52 AM

To: Keith Delange

Subject:

Table attached

Linda J. Watto Senior Project Manager

GeoTek Engineering & Testing Services, Inc. 909 East 50th Street North Sioux Falls, SD 57104 P: 605.335.5512

P: 605.335.5512 F: 605.335.0773

mailto:lwatts@geotekeng.com

www.geotekeng.com

| W W W.gcotckciig.com | | | | | | |
|----------------------|--|--|--|--|--|--|
| × | | | | | | |
| | | | | | | |
| | | | | | | |
| 1 | | | | | | |

Resources for Design & Construction

| Monitoring Location ID | Well Designation | Semi- Annual | Annually | Parameters |
|------------------------------|---|-----------------|----------|------------------------|
| MW-1 | On-site Perimeter | | V | BTEX |
| MW-4R | 2000 Excavation Area Free Product/Source/Interior | √ | | BTEX (Metals annually) |
| MW-5 | On-site – South Fence Line Perimeter | | √ | BTEX |
| GMW-3 | North of Source Areas Perimeter | | √ | BTEX |
| GMW-4 | North of Source Areas Perimeter | | √ | BTEX (Metals annually) |
| GMW-6 | On-site Perimeter | | 1 | BTEX |
| GMW-7R | On-site – South Fence Line Interior | 1 | | BTEX (Metals annually) |
| GMW-8 | On-site Perimeter | | √ | BTEX |
| GMW-9R | 2000 Excavation Area Interior | √ . | | BTEX (Metals Annually) |
| GMW-10R | 2000 Excavation Area - Interior | √ | | BTEX |
| GMW-13 | Metals Soils Disposal Area Interior | | √ | BTEX (Metals annually) |
| GMW-14 | On-site – North of Excavation Area – Interior | | √ | BTEX |
| GMW15 | On-site - South of Source Areas Interior | √ | | BTEX (Metals annually) |
| GMW16 | On-site - South of Source Areas Interior | V | | BTEX |
| GMW17 | On-site – South of Source Areas Interior | | √ | BTEX |
| GMW18R | On-site – South of Source Areas Interior | - | √ | BTEX |
| GMW-19 | On-site – South Fence Line Interior | 4 | | BTEX |
| GMW-20 | On-site – South Fence Line Interior | V | | BTEX |
| GMW-21 | Off-site – South of Source Areas Interior | 1 | | BTEX |
| GMW-22 | Off-site – South of Source Areas Perimeter | 1 | | BTEX |
| GMW-25 | Off-site - South of Source Areas Guard | √ | | BTEX |
| GMW-30 | Off-site – South of Source Areas Perimeter | √ | | BTEX |
| GMW-33 | On-site - South Fence Line - Interior | √ | | BTEX |
| GMW-34 | On-site – South of Source Areas Perimeter | 1 | | BTEX |
| GMW-35 | Off-site – Guard | V | | BTEX |
| GMW-36 | Off-site – Guard | V | | BTEX |
| GMW-37 | Off-site – Guard | √ | | BTEX |
| TC-6S | On-site – South of Source Areas Interior | | √ | BTEX |
| TC-6D | On-site – South of Source Areas Interior | √ | √ | BTEX (Metals annually) |

| Monitoring Location ID | Well Designation | Semi- Annual | Annually | Parameters |
|------------------------------|---|-----------------|-----------|------------------------|
| TC-7 | North of Source Area Impacts to Creek/Perimeter | | 1 | BTEX (Metals annually) |
| TC-22S | On-site Perimeter | | _ √ | BTEX |
| TC-22D | On-site Perimeter | | $\sqrt{}$ | BTEX |
| TC-23 | On-site South Fence Line Perimeter | | √ | BTEX |